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it had decreased to 14.4 magnitude, and that it was surrounded by a faint, irregular nebula which seemed to extend continuously to the bright nebula, N. G. C. 5253.

On June 26th its brightness was estimated at  $15\frac{1}{4}$ , and on July 9th at nearly 16th magnitude. On the last date it was difficult to detect the star in the midst of the nebula surrounding it. On this date the nebula about the star was seen plainly to be continuous with the bright, adjacent nebula, N. G. C. 5253, of which it seems to be a part. When the star was brighter, the nebula about it was not seen; this was no doubt due to the overpowering light of the star, for as the star faded, the nebula became more and more conspicuous.

MOUNT HAMILTON, Cal., July 15, 1896.

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## LIST OF EARTHQUAKES IN CALIFORNIA FOR THE YEAR 1895.

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COMPILED BY C. D. PERRINE.

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The following list gives the dates and places of occurrence of earthquakes in California (including, also, a number outside of the State), compiled from observations at Mount Hamilton and reports received at the LICK Observatory, both by letter and newspaper. A number of disturbances have come under our notice which are not properly within our province, but which may possibly have escaped other compilers, and are, therefore, included.

This is a continuation of similar reports printed in these *Publications*: Vol. II, p. 74; Vol. III, p. 247; Vol. V, p. 127; Vol. VI, p. 41, and Vol. VII, p. 99. A more complete account will be published as a bulletin by the United States Geological Survey. The dates are civil dates. The times are Pacific standard (120th meridian).

Roman numerals enclosed in parentheses indicate the intensity on the ROSSI-FOREL scale. The reports of the Light-house Board, and of the Weather Bureau, should be consulted in this connection.

There are, as yet, but few stations on the Pacific Coast equipped with instruments for the observation of earthquakes.

Members of the Society, therefore, can assist materially in making these reports more complete by sending to the LICK Observatory descriptions of shocks which come to their notice.

Several cases have been mentioned by the newspapers which, from their nature, seem doubtful. As we have not sufficient evidence to warrant their omission entirely, they are indicated by a question mark in parenthesis.

## LIST OF EARTHQUAKE SHOCKS, 1895.

January 5—Mt. Hamilton, 3<sup>h</sup> 4<sup>m</sup> 57<sup>s</sup>  $\pm$  A.M. One light shock.  
—A. L. C.

January 23—Ukiah, A.M. Heavy shock.

January 26—Helena (Mont.), 5 A.M.

February 25—Portland (Oregon), Tacoma (Wash.), 4:47 A.M.  
Reported by Mr. F. G. Plummer.

Edison, Sumner, Puyallup, and Steilacoom (Wash.).

March 1—At sea, off the Mendocino coast. Longitude, 125° 20';  
latitude, 40°.

March 10—San Miguel Island (?).

March 12—Mt. Hamilton, 9<sup>h</sup> 34<sup>m</sup> 17<sup>s</sup> P.M. (IV or V).

March 22—Steamboat Springs (Colo.), 1 P.M.

April 1—Eureka, 8:42 A.M.

April 6—San José, 6:45 A.M.

April 16—Port Townsend (Wash.).

April 17—Vacaville, 12:30 (P.M.?).

Virginia (Nev.), 6 P.M.

April 18—Island in eruption off the Mendocino coast (?).

April 19—Victoria (B. C.).

April 27—Colima (Mex.). Volcano in eruption.

May 1—Lakeport, 2:30 A.M.; Ukiah, 3 A.M.

May 21—Pinole, Contra Costa Co., 10:40 A.M. Explosion of  
nitro-glycerine works. Felt at Mt. Hamilton.

May 28 to 31—Peru and Chile. Several severe shocks and a  
tidal-wave.

June 11—Mount Baker (Wash.) in eruption (?).

June 15—Chimacum (Wash.), 8 P.M. It is reported that a large  
meteor fell, striking the earth with sufficient force to  
break crockery and glass in the neighborhood.

June 20—Mt. Hamilton, 9<sup>h</sup> 43<sup>m</sup> 26<sup>s</sup> P.M.; Smith Creek.

June 23—Cocopah Mountains (Lower Calif.) in eruption (?).

June 24—Mt. Hamilton, 9<sup>h</sup> 25<sup>m</sup> 36<sup>s</sup> P.M.—E. E. B.

9<sup>h</sup> 25<sup>m</sup> 41<sup>s</sup> P.M.—R. G. A.

July—Nanaimo (B. C.). A shock of earthquake was felt the week of July 9th.

July 26—Santa Barbara, 4:10 P.M.

August 4—Gilroy, 2 A.M.

August 15-17—Virginia (Nev.). Six shocks in two days.

October 7—Mills College, 7:17 P.M. Reported by Prof. Keep.

Albuquerque, Sabinal, Jorales (N. M.)

October 14—The tide-gauge of the U. S. Coast Survey at Sausalito shows evidences of a heavy storm or earthquake. The irregularities in the record began at 8:20 A.M. on October 14th, and lasted continuously for eighteen hours.

October 24—At sea, off the California coast. Latitude  $43^{\circ} 54'$  north; longitude,  $128^{\circ} 32'$  west.

October 31—Chicago (Ill.),  $5^h 12^m 10^s$  A.M.—E. E. B.

November 7—Mt. Hamilton,  $5^h 46^m 34^s$  A.M. Light shock.

$3^h 12^m 53^s$  P.M. (V).

San José, 3:14 P.M.; Santa Cruz, 3:15 P.M.

November 26—Mt. Hamilton,  $1^h 56^m 35^s$  P.M. (II or III).

November—Kyuquot (B. C.) (Early in the month.)

December 8—Fairfield, Fullerton, Napa.

December 12—Ukiah, 12:40 (P.M.?).

December 23—Santa Barbara, 9:30 P.M.

December 28—Mt. Hamilton,  $9^h 12^m 13^s$  A.M.

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#### ( TWENTY-THIRD ) AWARD OF THE DONOHUE COMET-MEDAL.

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The Comet-Medal of the Astronomical Society of the Pacific has been awarded to Dr. LEWIS SWIFT, Director of the LOWE Observatory, California, for his discovery of an unexpected comet on April 13, 1896.

The Committee on the Comet-Medal,

EDWARD S. HOLDEN,

W. W. CAMPBELL,

C. D. PERRINE.

June 13, 1896.